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# An Implementation and Efficient Way to Improve Women Safety Empowerment

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***ABSTRACT**: A wide range of tracking systems has been developed for tracking vehicles and displaying their position on a map ,applications has been developed which tracks the mobility of a human being. Now days, tracking a person's mobility has become a crucial issue, specifically in case of women. If tracking a criminal could be implemented as a system which is cost effective and can be used for tracking a human being using a GPS equipped mobile phone rather than using a handheld GPS receiver. The main aim of our project is to develop an application that reduces the overall cost of tracking based on GPS system, which is satellite based service and it is available 24X7 everywhere in the whole world.*

*GPS system can be used to get location which includes details like latitude, longitude and altitude values along with the time details, etc. It is a free of cost service available to every individual. In order to track the movement of the person we have used Google maps for mapping the location sent by the mobile phone. The mobile phone fetches the GPS location which communicates with the server using General Packet Radio Service(GPRS).This system is a low cost service which is wireless data communication system. Mobile phone equipped with GPS receiver are easily available in the market, it is a latest technology. The mobile phone technology has enable us to communicate across the world .The GPRS is one of the best and cheapest mode of communication available today.*

## 1. INTRODUCTION

Safety for women is one of the most pressing issues of our time that should have been a fundamental, undeniable concept for any civilized society centuries ago. Denying fundamental rights to safety, personal choices, freedom to pursue, whatever lifestyle they wish to, sexual and physical empowerment are not new issues – but have strangely not managed to be eradicated even in today's times.

The legal proceedings that followed one of the most horrific crimes committed in the capital of the country; the sexual assault and homicide of 'Nirbhaya' few years back, highlighted the pressing need to ensure safety for women and bring about a change in patriarchal mindsets of the population.

A lot of people have been crying out loud for better ways to ensure women security and make things better for them. And it seems like, that people are definitely trying to do; something about it!

Now finally, there's an app that promises to add its drop into the ocean to ensure safety for women that's completely designed for Indian audiences.

## 2. LITERATURE SURVEY

This is a privacy security app having troop of features; GPS tracking, emergency & important contact numbers, directions to safe locations, pins displaying danger zone area and a Safety Score. It drives in advance of exemplary women safety apps, and presents a vast range of features, so that, they will help to practically plan and can give a counter attack to those spots in the locality. When a person is moving to a new locality that is unknown to her and if she needs to know the safe areas, then this app will be much helpful, providing the user, a map based view of the locality along with its safety score.

In today's world, people using smart phones have increased rapidly and hence, a smart phone can be used efficiently for personal security or various other protection purposes. The heinous incident that outraged the entire nation have waken us to go for the safety issues and so a host of new apps have been developed to provide security systems to women via their phones. This paper presents, an Android Application for the Safety of Women and this app can be activated this app by a single click, whenever need arises. A single click on this app identifies the location of place through GPS and sends a message comprising this location URL to the registered contacts and also call on the first registered contact to help the one in dangerous situations.

## 3. PROPOSED WORK:-

The application is designed to help Women who surprisingly fall into an emergency situation regarding their safety from rapists, stalkers, hence in need of immediate help. This application can be very useful as it offers many advanced features as compared to the existing system.

### 3.A Advantage

- Your loved ones and close friends can automatically receive text message.
- Exact time of the alert triggered. Your location (with map link).
- The battery level of your phone.
- It monitors the frequent no of shakes in a particular locality or area and marks that particular location as DANGERZONE.
- Automatic prompt for activating location.
- Self-defense video for guiding victim, how to remain safe and protect in dangerous situations arising.

### 3.B Algorithm Steps:

1. Read Instruction
2. Register Guardin
3. Save the Details
4. Message to guarding if mobile is shaked

### 4. SYSTEM ARCHITECTURE

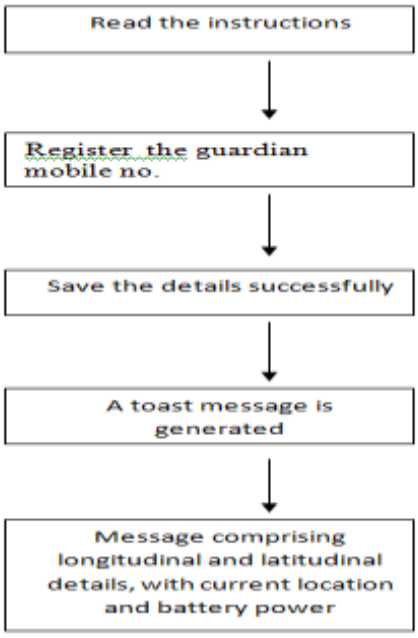


**Fig -1: Architecture of proposed system**

### 5. SYSTEM SPECIFICATIONS

- Hardware Requirement:
  - 2.2 GHZ CPU
  - 8 GB RAM
  - Android Phone
- Software Requirement:
  - KitKat and Above
  - Android Studio

### 6. PROPOSED SYSTEM MODULE

**Module 1:** we have created 100% user interface.

**Module 2:** Alert guardian with battery level. It is completed 100%

**Module 3:** show location in google map. We will start this soon.

### 7. CONCLUSIONS

This is the "Android Application for women security system" which is very useful application mainly for girl's safety. When we feel that we are in emergency situation, for example travelling alone in the Auto/Cab at night time we can use this application. So that on one click we can send our location to our family members and to any police stations. So once we click on button it continuously send updated locations messages to all authorized persons and we can stop the crime that will be conducted. So this application is having both safety and security which needs the engineering code of con-duct which is essential in the today's world this mobile application is helpful in future when any problem arises in travelling or any kind of situations.

- As the technology emerges, it is possible to upgrade these apps and can be adaptable to desired environment. Because it is based new technologies, any further changes can be easily adaptable.
- Based on the future security issues, security can be improved using emerging technologies.
- We will try to implement the application without the use of internet.
- We will try to provide emergency balance in case of zero balance situations.
- By tapping the feet twice or thrice we will try to make live video call to the registered mobile number.

### 8. FUTURE SCOPE

- Will be adding hardware so that user can press the button and sms will be sent to guardins
- Currently we are creating android app in future we will develop ios app

**9. ACKNOWLEDGEMENT**

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